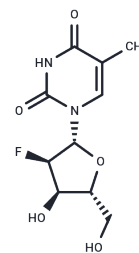


## 2'-Fluorothymidine

## Chemical Properties

CAS No. :	122799-38-6
Formula:	C <sub>10</sub> H <sub>13</sub> FN <sub>2</sub> O <sub>5</sub>
Molecular Weight:	260.22
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	2'-Fluorothymidine (2'-Deoxy-2'-fluoro-5-Methyluridine) belongs to the thymidine (TdR) and methyluridine isozymes and is a highly selective substrate for thymidine kinase type 2 (TK2). hCYP3A4 Fluorogenic substrate 2 is a chelator of thymidine and methyluridine.
Targets(IC50)	Nucleoside Antimetabolite/Analog, Others

## Solubility Information

Solubility	DMSO: 55 mg/mL (211.36 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8429 mL	19.2145 mL	38.429 mL
5 mM	0.7686 mL	3.8429 mL	7.6858 mL
10 mM	0.3843 mL	1.9215 mL	3.8429 mL
50 mM	0.0769 mL	0.3843 mL	0.7686 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Wiebe LI, et al. Biochemistry and biology of 2'-Fluoro-2'-deoxythymidine (FT), a putative highly selective substrate for thymidine kinase type 2 (TK2). *Curr Radiopharm.* 2012 Jan;5(1):38-46.

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